

**Commonwealth of Kentucky**  
**Division for Air Quality**  
**EXECUTIVE SUMMARY**

(PROPOSED)

Title V / Synthetic Minor, Construction

Permit: V-05-076

Celanese, Ltd.

Calvert City, KY 42029

July 18, 2007

Julian D. Breckenridge, Reviewer

SOURCE ID: 21-157-00055

SOURCE A.I. #: 40292

ACTIVITY ID: APE20040001

**SOURCE DESCRIPTION:**

On September 30, 2002, Celanese, Ltd. of 408 North Main Street, Calvert City, KY 42029 applied to the Kentucky Division for Air Quality for a permit to operate/construct an Industrial Chemical Manufacturing plant at 408 North Main Street, Calvert City, KY 42029. The source produces polyvinyl alcohol (PVOH) using vinyl acetate, methanol, sodium hydroxide, and a peroxide catalyst. Acetic acid is produced as a byproduct. The potential to emit, as defined in 401 KAR 52:001, Section 1 (56) of volatile organic compounds (VOC), carbon monoxide (CO) and nitrogen oxides (NOx) as regulated air pollutants is greater than one hundred (100) tons per year; and the potential to emit of single and combined hazardous air pollutants (HAPs) is greater than 10 and 25 tons per year, respectively. Therefore, the source is a major source and is subject to the provisions of 401 KAR 52:020 for a Title V program. The application was deemed complete on December 12, 2002.

**PUBLIC AND AFFECTED STATE REVIEW:**

On April 11, 2007, the public notice on availability of the draft permit and supporting material for comments by persons affected by the plant was published in *Marshall County Tribune-Courier* in Benton, Kentucky. The public comment period expired 30 days from the date of publication.

Comments were received from Celanese, Ltd. of Calvert City, Kentucky on May 11, 2007. Attachment A to the Responses to Comments lists the comments received and the Division's response to each comment. Minor changes were made to the permit as a result of the comments received, however, in no case were any emissions standards, or any monitoring, recordkeeping or reporting requirements relaxed. Please see Attachment A for a detailed explanation of the changes made to the permit. The U.S. EPA has 45 days to comment on this proposed permit.